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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/703,181	10/30/2000	Michael T. Moore	CY-0016	9600
;	7590 12/03/2002			
Bradley T. Sako 3954 Loch Lomand Way Livemore, CA 94550			EXAMINER	
			LIU, ANDREA	
			ART UNIT	PAPER NUMBER
			2825	
			DATE MAILED: 12/03/2002	!

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	7
<b>.</b>		09/703,181	MOORE ET AL.	/
Office Action Summary		Examiner	Art Unit	
		Andrea Liu	2825	
Period	The MAILING DATE of this communication ap for Reply	pears on the cover sheet with the	correspondence address	
TH - E a - If - If - F - A	EHORTENED STATUTORY PERIOD FOR REPLE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1. fter SIX (6) MONTHS from the mailing date of this communication. The period for reply specified above is less than thirty (30) days, a replace NO period for reply is specified above, the maximum statutory period aillure to reply within the set or extended period for reply will, by statuting reply received by the Office later than three months after the mailing armed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be ti only within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from e. cause the application to become ABANDONI	mely filed  ys will be considered timely.  n the mailing date of this communication.  ED (35 U.S.C. & 133)	
1)[	Responsive to communication(s) filed on 26	September 2002		
2a)[	☐ This action is <b>FINAL</b> . 2b)☑ Th	his action is non-final.		
3)[ Dispos	Since this application is in condition for allow closed in accordance with the practice under sition of Claims	rance except for formal matters, p Ex parte Quayle, 1935 C.D. 11, 4	rosecution as to the merits is 453 O.G. 213.	;
4)[	☑ Claim(s) 1-23 is/are pending in the application	n.		
	4a) Of the above claim(s) is/are withdra	wn from consideration.		
5)[	Claim(s) is/are allowed.			
6)[	Claim(s) (-23 is/are rejected.			
7)[	Claim(s) is/are objected to.			
8)[	Claim(s) are subject to restriction and/o	or election requirement.		
Applic	ation Papers			
9)[	The specification is objected to by the Examine	er.		
10)[	☐ The drawing(s) filed on is/are: a)☐ acce			
	Applicant may not request that any objection to the		The state of the s	
11)∟	The proposed drawing correction filed on		oved by the Examiner.	
40\[	If approved, corrected drawings are required in re	• •		
	The oath or declaration is objected to by the Ex	kaminer.		
_	/ under 35 U.S.C. §§ 119 and 120			
	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).	
,	a) All b) Some * c) None of:			
	1. Certified copies of the priority document			
	2. Certified copies of the priority document	, ,	<del></del>	
,	3. Copies of the certified copies of the prio application from the International Bu See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	<b>Q</b>	
	Acknowledgment is made of a claim for domesti			n).
	a)  The translation of the foreign language pro Acknowledgment is made of a claim for domest	ovisional application has been rec	ceived.	
Attachm				
2) 🔲 No	tice of References Cited (PTO-892) tice of Draftsperson's Patent Drawing Review (PTO-948) ormation Disclosure Statement(s) (PTO-1449) Paper No(s)		y (PTO-413) Paper No(s) Patent Application (PTO-152)	

Application/Control Number: 09/703,181

Art Unit: 2825

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Regarding claim 1, the phrase "may be" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baxter U.S. Patent No. 5,815,405 in view of Jefferson U.S. Patent No. 6,127,865 and further in view of Applicants' application.

With reference to claims 1-3, 5-7, 9, 11, 13, 14-17, column 3 of the Baxter reference teaches a programmable logic device (PLD) that includes configurable elements programmed to perform the functions of the circuit. It also teaches a programming circuit that communicates with another part of the logic device via busses and the generation of a bit stream (see Figure 1B). Furthermore, the reference teaches the new integrated circuit to include operation circuits

Art Unit: 2825

that allow a user to perform conversion of one PLD representation to another (see Figures 1A, 1B and 2). Here it is understood that a user may input data via varied software tools to define the circuit design. Moreover, column 10 of the Baxter reference teaches a memory circuit for storing configurable elements. However, the reference does not explicitly disclose a timing circuit.

The Jefferson reference teaches a clock signal generation circuit wherein a phase-shifted signal is produced to compensate for a logic signal delay in a PLD with a plurality of programmable logic elements such as logic array blocks programmed to be interconnected so that output logic signals provided by one block are received as input logic signals by another block (see columns 3 and 4). Therefore, it would have been obvious to one of ordinary skill in the art to include this feature in order to conduct logic signals between respective operably connected programmable logic elements.

Combined, the Baxter and Jefferson references teach an integrated circuit device with a communication portion as well as a timing circuit. However, they do not show an integrated circuit device wherein the data operation circuits include a scrambler circuit to perform a scrambler operation.

Applicants' application acknowledges, under the Background of the Invention section, that "polynomial representation of scrambling functions and circuits are well known in the art." To include the steps related to scrambling would thus have been obvious to one of ordinary skill in the art since in so doing, one may ensure that a transition in state takes place within a set time frame through, *inter alia*, the detection of when a sequence of consecutive bits has the same value (see page 2).

. Application/Control Number: 09/703,181

Art Unit: 2825

Response to Applicant's Comments

In reviewing the prior art sent to the Applicant on July 3 July 2002 the Applicant's

arguments filed on 26 September 2002 have been considered and found to be persuasive by the

Examiner. However, claims 1-23 have been rejected in light of the new prior art enclosed

hereto.

Since the above change was not necessitated by the Applicant's amendment, this is not a

Final Rejection.

Status of Application

Rejection: Claims 1-23

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Andrea Liu whose telephone number is (703) 305-4041.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 1-800/PTO-9199.

Page 4